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09/800,832	03/06/2001	Edward L. Schwartz	74451.P127D2	3686

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EXAMINER

SHERALI, ISHRAT I

ART UNIT PAPER NUMBER

2621

DATE MAILED: 06/07/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

09/800,832

Applicant(s)

SCHWARTZ ET AL.

Examiner

Sherali Ishrat

Art Unit

2621

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-29 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-8, 10-22 and 24-29 is/are rejected.
- 7) ☐ Claim(s) 9 and 23 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 06 March 2001 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received:

## Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 6, 11.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_.

## **DETAILED ACTION**

### **Drawings**

1. The drawings are objected to under 37 CFR 1.83 (a). The drawings must show every feature of the invention specified in claims. Therefore, the steps of the claimed method must be shown. The drawings do not illustrate any steps of claims 1-29.
2. The drawings are objected because handwritten characters inside the blocks of several figures are not legible; therefore not understood.

### **Claim Rejections - 35 USC § 102**

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

4. Claims 1-8, 10-22, and 24-29 are rejected under 35 USC §102 (a) as being anticipated by JPEG 2000 INTERNATIONAL STANDARD (information technology image coding system, part 1, ISO/IEC 15444-1).

Regarding claims 1, 15, and 29 JPEG 2000 INTERNATIONAL STANDARD [JPEG 2000] discloses receiving a JPEG 2000 codestream of compressed image data having a sideband information hidden therein (See JPEG 2000 , page 8, paragraph 5,

Art Unit: 2621

lines 2-3, "the codestream provides a number of mechanism for and extracting portions of the compressed image data for the purpose of storage, display", and page 9, paragraph 5.1, lines 7-8 "compressed image data includes parameter specification required by decoding process" extracting portions of the compressed image data for the purpose of storage, display in the system of JPEG 2000 is receiving a JPEG 2000 codestream of compressed image data. Inclusion of parameter specification with compressed data in the system of JPEG 2000 is sideband information hidden in codestream [compressed data]); and

decompressing the codestream based on the side band information (See JPEG 2000, page 9, paragraph 5.1, lines 7-8 "compressed image data includes parameter specification required by decoding process" i.e decompressing the codestream based on the side band information [parameter specification])

Regarding claims 2 and 16 JPEG 2000 discloses the sideband information is stored in a from the group of markers that includes PPM, PPT, PLM, PLT, QCD, POC markers (See JPEG 2000, page 13, paragraph A.1, lines 1-3, "JPEG 2000 INTERNAL STANDARD uses marker and marker segment to delimit and signal the characteristics of source image and codestream" [side band information] , and pages 15-16, Table A-2, shows list of information [side band information] provided by which marker which include PPM, PPT, PLM, PLT, QCD, POC).

Regarding claims 3 and 17 JPEG 2000 discloses the sideband information is stored in a packet header (See JPEG 2000, page 13, paragraph A.1, lines 1-3, "JPEG 2000 INTERNAL STANDARD uses marker and marker segment to delimit and signal

Art Unit: 2621

the characteristics of source image and codestream" [side band information], page 13, paragraph A.1, lines 5-6, main and tile [packet] part headers are collection of markers i.e information shown in Table A-2, pages 15-16 is stored in packet headers).

Regarding claims 4 and 18, JPEG 2000 discloses end of the packet header rounding information in the header to byte boundary (See JPEG 2000, page 13, paragraph A.1, lines 5-6, tile [packet] headers are collection of marker [sideband information], tile [packet] headers are found at the beginning of each tile i.e beginning of each tile is end of the packet header and JPEG 2000 page 13, paragraph A.1, line 8, "each marker is two bytes long" i.e two-byte long marker is found at beginning of each tile then information in two byte marker [packet header] is rounding information in the header to byte boundary of each tile i.e packet/tile header where sideband information have boundary with byte of the tile).

Regarding claims 5 and 19, JPEG 2000 discloses sideband information is stored after the last packet but before a next tile (See JPEG 2000, page 13, paragraph A.1, lines 5-6, tile [packet] headers are collection of marker [sideband information], tile [packet] headers are found at the beginning of each tile i.e before each next tile [beginning of tile] there is packet header).

Regarding claim 6 and 20, JPEG 2000 discloses sideband information is stored in packet header Lblock signaling (See JPEG 2000, page 65, paragraph B.8, line 4, "the number of layers [sideband information of Lblocking] is signaled in the COD marker [packet header]

Regarding claims 7 and 21, JPEG 2000 discloses sideband information is stored in the arithmetic coder termination information (See JPEG 2000, PAGE 88, paragraph C.2.9, lines 1-2, "procedure in figure C-11 is used to terminate the encoding operation of arithmetic coder and generate terminating marker" i.e side band information for termination of encoding is stored).

Regarding claims 8 and 22, JPEG 2000 discloses sideband information is stored in the least significant bit parity (See JPEG, page 30, Table A-13, shows parameter Scod [sideband information] which is in the least significant bit parity).

Regarding claims 10 and 24 JPEG 2000 discloses decompressing the codestream using hints stored in the sideband (See JPEG 2000, page 9, paragraph 5.1, lines 7-8 "compressed image data includes parameter specification required by decoding process" i.e decompressing the codestream based on the side band information [parameter specification] which is shown in Table A-2, pages 15-16 ).

Regarding claims 11 and 25 JPEG 2000 discloses hints comprise decoding, segmentation (See JPEG 2000, page 9, paragraph 5.1, lines 7-8 "compressed image data includes parameter specification required by decoding process" i.e decompressing the codestream based on the side band information [parameter specification] which is shown in Table A-2, pages 15-16, and page 17, Table A-3, Third Entry in the table shows number of layers which is segmentation).

Regarding claims 12 and 26 JPEG 2000 discloses sideband information comprise security information (See JPEG 200, Table I-2 tenth entry shows Intellectual Property about the image which is security information ).

Art Unit: 2621

Regarding claims 13 and 27 JPEG 2000 discloses sideband information comprise codestream identification information (See JPEG 200, page 34, paragraph A.6.2, lines 1-2, coding style, number of decomposition levels, layering used for compression is codestream identification information ).

Regarding claims 14 and 28 JPEG 2000 discloses sideband information comprise post-processing hints (See JPEG 2000, page 161, lines 1-3, "color specification box defines by which an application can interpret the color space of decompressed image data", color specification box sideband information comprise post-processing hints ).

### **Allowable Subject Matter**

5. Claims 9 and 23 are objected as being dependent on base claim but would be allowable if rewritten in independent form including limitations of the base claim and any intervening claims.

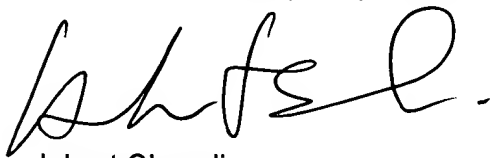
### **Communication**

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sherali Ishrat whose telephone number is 703-308-9589. The examiner can normally be reached on 8:00 AM - 4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Leo Boudreau can be reached on 703-305-4706. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 2621

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

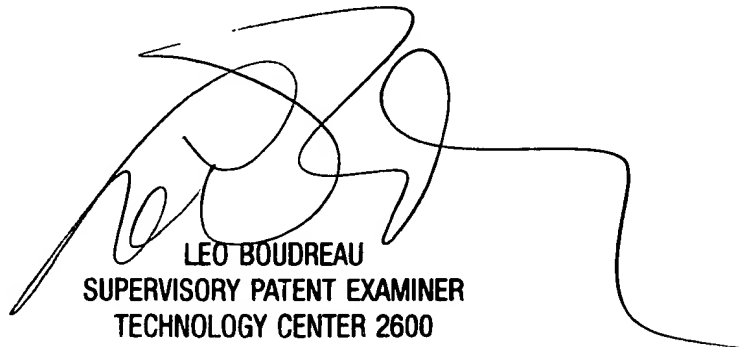


Ishrat Sherali

Patent Examiner

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May 22, 20004



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